

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	985	428/694T or 428/694TM	USPAT; US-PGPUB	OR	OFF	2005/06/23 15:42
L2	296	(428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer"	USPAT; US-PGPUB	OR	ON	2005/06/23 15:32
L3	115	((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$	USPAT; US-PGPUB	OR	ON	2005/06/23 15:32
L4	169	(((((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and ("soft magnetic" with (underlayer or perpendicular)))) and ("soft magnetic" with (underlayer or perpendicular))	USPAT; US-PGPUB	OR	ON	2005/06/23 15:35
L5	13	(((((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and ("soft magnetic" with (underlayer or perpendicular)))) and ("soft magnetic" with (underlayer or perpendicular)))) and ("soft magnetic" with nm with "NiFe")	USPAT; US-PGPUB	OR	ON	2005/06/23 15:35
L6	232	(perpendicular same magnetic same recording) and ((coercivity or "Hc" or "Ho") same maximum) and (thick or thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 16:23
L7	2094	427/131 or 427/313	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 15:41
L8	278	360/327.\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 15:41
L9	10200	428/64.\$ or 428/65.5 or 428/611 or 428/336 or 428/693	USPAT; US-PGPUB	OR	OFF	2005/06/23 16:15
L10	0	"20050142385"	USPAT; US-PGPUB	OR	OFF	2005/06/23 16:15

L11	1	"20050123805"	USPAT; US-PGPUB	OR	OFF	2005/06/23 16:23
L12	1092	204/192.2	USPAT; US-PGPUB	OR	OFF	2005/06/23 16:23
L13	80	(l12 or l1 or l2 or l3 or l8) and (perpendicular same magnetic same recording) and ((coercivity or "Hc" or "Ho") same maximum) and (thick or thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 16:36
L14	1	11-023256	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 16:36
S1	1	"6132567"	USPAT	OR	OFF	2004/06/28 13:10
S2	16	"4632883"	USPAT	OR	OFF	2003/12/23 19:14
S3	10	"5616218"	USPAT	OR	OFF	2003/12/23 19:15
S4	1	"461834"	EPO	OR	OFF	2003/12/23 19:23
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S6	195	(428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer"	USPAT; US-PGPUB	OR	ON	2005/06/23 15:32
S7	0	((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and ("closed magnetic loop")	USPAT; US-PGPUB	OR	ON	2003/12/23 19:30
S8	0	((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and ("closed magnetic loops")	USPAT; US-PGPUB	OR	ON	2003/12/23 19:30
S9	0	((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and ("magnetic loop\$")	USPAT; US-PGPUB	OR	ON	2003/12/23 19:30
S10	62	((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$	USPAT; US-PGPUB	OR	ON	2005/06/23 15:32
S11	53	((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and (loop\$ same magnetic)	USPAT; US-PGPUB	OR	ON	2003/12/23 19:31

S12	9	(((((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and (loop\$ same magnetic)) and (loop\$ same magnetic same clos\$)	USPAT; US-PGPUB	OR	ON	2003/12/23 19:35
S13	3	(((((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and (loop\$ same magnetic)) and (loop\$ same magnetic same closed)	USPAT; US-PGPUB	OR	ON	2003/12/23 19:36
S14	57	((((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and ("soft magnetic" with (underlayer or perpendicular)))	USPAT; US-PGPUB	OR	ON	2003/12/23 19:39
S15	57	(((((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and ("soft magnetic" with (underlayer or perpendicular))) and ("soft magnetic" with (underlayer or perpendicular)))	USPAT; US-PGPUB	OR	ON	2005/06/23 15:34
S16	5	(((((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and ("soft magnetic" with (underlayer or perpendicular))) and ("soft magnetic" with (underlayer or perpendicular))) and ("soft magnetic" with nm with "NiFe")	USPAT; US-PGPUB	OR	ON	2005/06/23 15:35
S17	1	"6641934"	USPAT	OR	OFF	2004/06/28 17:08
S18	198	"closed magnetic loop"	USPAT	OR	OFF	2004/06/28 17:21
S19	23	"closed magnetic loop" and "magnetic recording"	USPAT	OR	OFF	2004/06/28 19:14
S20	1072	428/694t or 428/694tm	USPAT	OR	OFF	2004/06/28 19:18
S21	0	"perpendicular magnetic"/clm	USPAT	OR	OFF	2004/06/28 19:19
S22	0	"perpendicular magnetic"/cm	USPAT; US-PGPUB	OR	OFF	2004/06/28 19:19
S23	0	"perpendicular magnetic"/cl	USPAT; US-PGPUB	OR	OFF	2004/06/28 19:19
S24	4215	"perpendicular magnetic"	USPAT; US-PGPUB	OR	OFF	2004/06/28 19:21

S25	1227	428/694T or 428/694TM	USPAT; US-PGPUB	OR	OFF	2005/06/23 15:31
S26	316	(428/694T or 428/694TM) and "perpendicular magnetic"	USPAT; US-PGPUB	OR	OFF	2004/06/28 22:13
S27	31	"5616218" OR "4632883"	USPAT; US-PGPUB	OR	OFF	2004/06/28 22:14
S28	0	"0461834"	EPO	OR	OFF	2004/06/28 22:14
S29	0	EPO0461834	EPO	OR	OFF	2004/06/28 22:15
S30	1	"461834"	EPO	OR	OFF	2004/06/28 22:15
S31	232	(perpendicular same magnetic same recording) and ((coercivity or "Hc" or "Ho") same maximum) and (thick or thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 20:30
S32	98	S31 and (underlayer or "under layer") and (soft same magnetic)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 22:25
S33	8	S31 and "Kim"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 20:38
S34	72	S32 and (reduc\$ same thickness\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 20:41
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S37	232	(perpendicular same magnetic same recording) and ((coercivity or "Hc" or "Ho") same maximum) and (thick or thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 15:35
S38	98	S37 and (underlayer or "under layer") and (soft same magnetic)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 22:25

S39	80	S38 and ((coercivity or "Hc" or "Ho") same (thick or thickness))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 22:26
S40	34	"349810" or "001218"	USPAT; US-PGPUB; EPO; DERWENT	OR	OFF	2005/06/22 14:51
S41	8	Hiroataka and Shinzo	USPAT; US-PGPUB; EPO; DERWENT	OR	OFF	2005/06/22 14:51

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IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

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|--------------------------|---|
| <input type="checkbox"/> | <p>1. Theoretical analysis of longitudinal and perpendicular recording potential
 Richter, H.J.; Champion, E.C.; Peng, Q.;
 Magnetics, IEEE Transactions on
 Volume 39, Issue 2, Mar 2003 Page(s):697 - 703
 Summary: The recording potentials of perpendicular recording with a magnetically soft underlayer and of longitudinal recording are compared theoretically under the constraint of write-ability and thermal stability. In contrast to longitudinal recording, the recording potentials of perpendicular recording are not limited by the thermal stability of the recording media.
 AbstractPlus Full Text: PDF(418 KB) IEEE JNL</p> |
| <input type="checkbox"/> | <p>2. Perpendicular media: alloy versus multilayer
 Brucker, C.; Nolan, T.; Bin Lu; Kubota, Y.; Plumer, M.; Pu-Ling Lu; Cronch, R.; Chung-Hee Chang; Chen, D.; Michel, R.; Parker, G.; Tabat, N.;
 Magnetics, IEEE Transactions on
 Volume 39, Issue 2, Mar 2003 Page(s):673 - 678
 Summary: Properties and performance for alloy and multilayer perpendicular recording media designs utilizing various underlayers are compared. Among samples considered here, grain size and grain size dispersion are more important than the underlayer material.
 AbstractPlus Full Text: PDF(791 KB) IEEE JNL</p> |
| <input type="checkbox"/> | <p>3. Perpendicular recording near 100 Gb/in/sup 2/
 Eppler, W.R.; Sunder, A.; Kams, D.W.; Kurtas, E.M.; Ju, G.A.; Wu, X.; van der Heijden, P.A.A.; Kubota, Y.; Zi Chang;
 Magnetics, IEEE Transactions on
 Volume 39, Issue 2, Mar 2003 Page(s):663 - 667
 Summary: Theoretical analyses have projected perpendicular recording capable of achieving ultimate areal density for longitudinal recording systems. For perpendicular recording to supplant longitudinal recording, laboratory demonstration is needed.
 AbstractPlus Full Text: PDF(294 KB) IEEE JNL</p> |
| <input type="checkbox"/> | <p>4. Low-noise CoCrPtO perpendicular media with improved resolution
 Velu, E.M.T.; Malhotra, S.; Bertero, G.; Wachenschwanz, D.;
 Magnetics, IEEE Transactions on
 Volume 39, Issue 2, Mar 2003 Page(s):668 - 672
 Summary: CoCrPtO perpendicular media with coercivities greater than 6000 Oe, M/sub r//M/sub s/ equal to or greater than 1.5, and nucleation fields exceeding 3000 Oe were produced. The crystallographic, magnetic, and recording properties are reported.
 AbstractPlus Full Text: PDF(3161 KB) IEEE JNL</p> |
| <input type="checkbox"/> | <p>5. Magnetic printing technology - application to HDD</p> |

- ☐ Ishida, T.; Miyata, K.; Hamada, T.; Hashi, H.; Ban, Y.; Taniguchi, K.; Saito, A.;
 Magnetism, IEEE Transactions on
 Volume 39, Issue 2, Mar 2003 Page(s):628 - 632
 Summary: As the recording density of hard disk drives is being rapidly increased, the current servo track write conventional servo track writer has become more costly and technically difficult. In order to solve the problem
[AbstractPlus](#) | Full Text: [PDF\(1228 KB\)](#) IEEE JNL
- ☐ 6. High-moment FeCo-IrMn exchange-coupled soft underlayers for perpendicular media
 Jung, H.S.; Doyle, W.D.;
 Magnetism, IEEE Transactions on
 Volume 39, Issue 2, Mar 2003 Page(s):679 - 684
 Summary: Ferromagnetic/antiferromagnetic coupled multilayers provide a unique solution to several problem underlayers for perpendicular media. Properly designed, they demonstrate outstanding characteristics: a unique remanent di.....
[AbstractPlus](#) | Full Text: [PDF\(406 KB\)](#) IEEE JNL
- ☐ 7. Transition jitter estimates in tilted and conventional perpendicular recording media at 1 Tb/in/sup 2/
 Kai-Zhong Gao; Bertram, H.N.;
 Magnetism, IEEE Transactions on
 Volume 39, Issue 2, Mar 2003 Page(s):704 - 709
 Summary: The recent proposal of tilted perpendicular recording for Tb/in/sup 2/ densities is extended here to of intergranular exchange and anisotropy distributions on signal-to-noise ratio. This new recording system includes
[AbstractPlus](#) | Full Text: [PDF\(418 KB\)](#) IEEE JNL
- ☐ 8. Obliquely sputtered TbFe giant magnetostrictive films with in-plane anisotropy
 Jiang, H.C.; Zhang, W.L.; Peng, B.; Zhang, W.X.; Yang, S.Q.;
 Magnetism, IEEE Transactions on
 Volume 41, Issue 4, April 2005 Page(s):1222 - 1225
 Summary: We have found that in-plane magnetostriction characteristics at low fields can be greatly improved by sputtering technique. We report a study of deposition of in-plane anisotropic TbFe giant magnetostrictive films by oblique sputtering.....
[AbstractPlus](#) | Full Text: [PDF\(616 KB\)](#) IEEE JNL
- ☐ 9. Media and tip trajectory optimization for high-density MFM-based perpendicular recording
 El-Sayed, R.T.; Carley, L.R.;
 Magnetism, IEEE Transactions on
 Volume 41, Issue 3, March 2005 Page(s):1209 - 1217
 Summary: In this paper, we investigate the feasibility of using a magnetic force microscopy scheme for recording magnetic marks for ultrahigh-density, ultralow power applications. We will address the main design considerations.....
[AbstractPlus](#) | Full Text: [PDF\(1208 KB\)](#) IEEE JNL
- ☐ 10. Methodology for Investigating the Magnetization Process of the Storage Layer in Double-Layered Perpendicular recording media using the anomalous Hall effect
 Kumar, S.; Laughlin, D.E.;
 Magnetism, IEEE Transactions on
 Volume 41, Issue 3, March 2005 Page(s):1200 - 1208
 Summary: The Hall effect is a useful phenomenon for evaluating the magnetization processes of the storage layer in double-layered perpendicular magnetic recording media. Although the Hall voltage in double-layered films has an anomalous.....
[AbstractPlus](#) | Full Text: [PDF\(552 KB\)](#) IEEE JNL
- ☐ 11. Annealing effect on the structure and magnetism of Co/Pt single- and bi-crystal multilayers
 Chin-Chung Yu; Yung Liou; Yung-Ching Chu; Wei-Chun Cheng; Yeong-Der Yao;
 Magnetism, IEEE Transactions on
 Volume 41, Issue 2, Feb. 2005 Page(s):924 - 926
 Summary: Both face-centered cubic (111) single- and bi-crystal [Co(3/nm Aring)/Pt(10/nm Aring)/sub 2/ multilayers successfully fabricated on sapphire (0001) and yttria-stabilized cubic zirconia (100) substrates, respectively, were
[AbstractPlus](#) | Full Text: [PDF\(624 KB\)](#) IEEE JNL

- ☐ 12. Micromagnetic modeling of head field rise time for high data-rate recording
Scholz, W.; Batra, S.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):702 - 706
Summary: We have developed a finite-element micromagnetics model to investigate the dynamics of write head recording at high density and high data-rates. The model includes the entire head geometry, with the large read head.....
[AbstractPlus](#) | Full Text: [PDF\(360 KB\)](#) IEEE JNL
- ☐ 13. Guiding principle for research on perpendicular magnetic recording
Iwasaki, S.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):683 - 686
Summary: Complementarity law between contrastive characteristics of longitudinal and perpendicular recording. Significant dependence of recording resolution upon media parameters of recording layer (thickness t_{PLI} , H_{sub} , c ,.....
[AbstractPlus](#) | Full Text: [PDF\(208 KB\)](#) IEEE JNL
- ☐ 14. Chemically synthesized FePt nanoparticle material for ultrahigh-density recording
Kodama, H.; Momose, S.; Sugimoto, T.; Uzumaki, T.; Tanaka, A.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):665 - 669
Summary: We have examined the magnetic anisotropy of the "heat-treated FePt nanoparticles" annealed in magnetic easy axis of the "heat-treated FePt nanoparticles" is found to be three-dimensional (3-D) random arrangement.....
[AbstractPlus](#) | Full Text: [PDF\(608 KB\)](#) IEEE JNL
- ☐ 15. Magneto-resistive read sensor with perpendicular magnetic anisotropy
Yunfei Ding; Judy, J.H.; Jian-Ping Wang;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):707 - 712
Summary: A new read sensor design is proposed in attempt to solve the magnetization distribution and thermal stability for nano-meter scale read sensors. In this design the free layer has a perpendicular-to-plane easy axis and the pinned layer has.....
[AbstractPlus](#) | Full Text: [PDF\(472 KB\)](#) IEEE JNL
- ☐ 16. Recording performance characteristics of granular perpendicular media
Wen Jiang; Velu, E.M.T.; Malhotra, S.; Jung, H.S.; Chi Kong Kwok; Bertero, G.; Wachenschwanz, D.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):587 - 592
Summary: The recording performance of CoCrPtO granular-type perpendicular media was examined with two perpendicular heads to demonstrate the importance of matching head and media designs in perpendicular recording heads with high write.....
[AbstractPlus](#) | Full Text: [PDF\(568 KB\)](#) IEEE JNL
- ☐ 17. Preconditioning, write width, and recording properties of Co-Cr-Pt-O perpendicular media with various parameters
Abarra, E.N.; Gill, P.; Min Zheng; Zhou, J.N.; Acharya, B.R.; Choe, G.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):581 - 586
Summary: The effect of magnetic "preconditioning" on the recording performance of perpendicular media is investigated. Furthermore, the dependence of the magnetic write width (MWW) of shielded-pole heads (SPH) on soft-underlayer thickness (t_{SU}).....
[AbstractPlus](#) | Full Text: [PDF\(544 KB\)](#) IEEE JNL
- ☐ 18. Very high-density and low-cost perpendicular magnetic recording media including new layer-structure
Matsunuma, S.; Koda, T.; Yano, A.; Yamanaka, H.; Shimazaki, K.; Fujita, E.; Ota, N.; Nishida, Y.; Tagawa, I.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):572 - 576

Summary: We have fabricated a new layered structure, named "U-mag," for perpendicular magnetic recording stacked films including a very thin (2 nm) ferromagnetic (Co) intermediate layer and lattice spacing control layer medium

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19. High-potential magnetic anisotropy of CoPtCr-SiO/sub 2/ perpendicular recording media

Shimatsu, T.; Sato, H.; Oikawa, T.; Inaba, Y.; Kitakami, O.; Okamoto, S.; Aoi, H.; Muraoka, H.; Nakamura, Y.;
Magnetics, IEEE Transactions on

Volume 41, Issue 2, Feb. 2005 Page(s):566 - 571

Summary: The magnetic anisotropy of CoPtCr-SiO/sub 2/ perpendicular recording media, including higher order anisotropy, was studied as a function of film composition and seed layer materials. All series of CoPtCr films with various Cr content were studied.....

[AbstractPlus](#) | Full Text: [PDF\(504 KB\)](#) IEEE JNL



20. High-anisotropy nanocluster films for high-density perpendicular recording

Sellmyer, D.J.; Yan, M.; Yingfan Xu; Skomski, R.;

Magnetics, IEEE Transactions on

Volume 41, Issue 2, Feb. 2005 Page(s):560 - 565

Summary: This paper reports results on the synthesis and magnetic properties of L1/sub 0/ nanocomposites of FePt, CoPt, and X=C, Ag, etc. Two fabrication methods are discussed: nonepitaxial growth of oriented per monolayers.....

[AbstractPlus](#) | Full Text: [PDF\(1024 KB\)](#) IEEE JNL



21. High-density perpendicular magnetic recording media of granular-type (FePt/MgO)/soft underlayer

Suzuki, T.; Zhengang Zhang; Singh, A.K.; Jinhua Yin; Perumal, A.; Osawa, H.;

Magnetics, IEEE Transactions on

Volume 41, Issue 2, Feb. 2005 Page(s):555 - 559

Summary: Perpendicular magnetic recording media, composed of granular-type FePt-MgO films on Fe-Ta-C underlayer (SUL), have been fabricated on to 2.5-in glass disks. [001] textured FePt granular films with high perpendicular magnetic anisotropy

[AbstractPlus](#) | Full Text: [PDF\(528 KB\)](#) IEEE JNL



22. Toward an understanding of grain-to-grain anisotropy field variation in thin film media

Jian-Gang Zhu; Yingguo Peng; Laughlin, D.E.;

Magnetics, IEEE Transactions on

Volume 41, Issue 2, Feb. 2005 Page(s):543 - 548

Summary: Grain-to-grain anisotropy field variation has become one of the main causes of medium noise, especially in perpendicular thin film media. In this paper, we present an electron microscopy investigation and theoretical analysis of grain-to-grain anisotropy.....

[AbstractPlus](#) | Full Text: [PDF\(864 KB\)](#) IEEE JNL



23. Composite media for perpendicular magnetic recording

Victoria, R.H.; Xiao Shen;

Magnetics, IEEE Transactions on

Volume 41, Issue 2, Feb. 2005 Page(s):537 - 542

Summary: A composite perpendicular recording media consisting of magnetically hard and soft regions within a single layer is proposed. Application of applied field initially causes the magnetization of the soft region to rotate and, thus, causes the hard region to rotate.....

[AbstractPlus](#) | Full Text: [PDF\(216 KB\)](#) IEEE JNL



24. Improvement in hard magnetic properties of FePt films by introduction of Ti underlayer

Chen, S.C.; Kuo, P.C.; Kuo, S.T.; Sun, A.C.; Chou, C.Y.; Fang, Y.H.;

Magnetics, IEEE Transactions on

Volume 41, Issue 2, Feb. 2005 Page(s):915 - 917

Summary: The FePt/Ti double layer films were prepared by dc magnetron sputtering on coming glass substrates. The Ti underlayer with 100-nm thickness was deposited at substrate temperature 200/spl deg/C, and the FePt layer, 3.....

[AbstractPlus](#) | Full Text: [PDF\(168 KB\)](#) IEEE JNL

**25. Advanced DC-free track code pattern using diphase code for perpendicular recording**

Hamaguchi, T.; Maeda, H.; Shishida, K.;

Magnetics, IEEE Transactions on

Volume 41, Issue 1, Jan. 2005 Page(s):137 - 139

Summary: We describe an advanced dc-free track code pattern that uses diphase code for a perpendicular recording. Error rates are compared between diphase code, dummy-bit code, and conventional diphase code. The diphase code shows better performance than the other two codes.

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IEEE CNF IEEE Conference Proceeding

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- ☐ 26. **Origins of coercivity increase in annealed symmetric spin valves**
McMichael, R.D.; Watanabe, T.; Dura, J.A.; Borchers, J.A.; Chen, P.J.; Brown, H.J.; Egelhoff, W.F., Jr.;
Magnetics, IEEE Transactions on
Volume 32, Issue 5, Sept. 1996 Page(s):4636 - 4638
Summary: Measurements of the effects of annealing on symmetric Co/Cu spin valves and similar structures
coercivity, increased ferromagnetic resonance linewidth and reduced moment. Low angle X-ray reflectivity m
that there is.....
[AbstractPlus](#) | Full Text: [PDF\(268 KB\)](#) IEEE JNL
- ☐ 27. **Effects of Pt seed layer and Ar pressure on magnetic and structural properties of sputtered CoNi/Pt m**
Meng, Q.; de Haan, P.; van Drent, W.P.; Lodder, J.C.; Popma, T.J.A.;
Magnetics, IEEE Transactions on
Volume 32, Issue 5, Sept. 1996 Page(s):4064 - 4066
Summary: CoNi/Pt multilayers were prepared by magnetron sputtering using Ar gas. The effects of the Pt se
sputtering pressure on magnetic and structural properties are investigated. Microstructures of the multilayers
XRD.....
[AbstractPlus](#) | Full Text: [PDF\(420 KB\)](#) IEEE JNL
- ☐ 28. **High density magnetic recording on highly oriented CoCr-alloy perpendicular rigid disk media**
Fontamato, M.; Honda, Y.; Hirayama, Y.; Itoh, K.; Ide, H.; Maruyama, Y.;
Magnetics, IEEE Transactions on
Volume 32, Issue 5, Sept. 1996 Page(s):3789 - 3794
Summary: High density magnetic recording is investigated for a combination of single-layered perpendicular
heads. Medium magnetic properties (Hc and Mr/Ms) are improved by introducing a dual underlayer structure.
experiments sho.....
[AbstractPlus](#) | Full Text: [PDF\(1520 KB\)](#) IEEE JNL
- ☐ 29. **Interactions and reversal processes in CoCrTa/CoCrTaPt thin films**
Morales, M.P.; O'Grady, K.; Zhang, B.; Bennett, W.R.; Rauch, G.C.;
Magnetics, IEEE Transactions on
Volume 32, Issue 5, Sept. 1996 Page(s):3593 - 3595
Summary: Switching behaviour and intergranular interactions have been studied in CoCrTa/CoCrTaPt doubl
sputtered on polished and textured substrates. From the combination of a low noise and a high coercivity allo
film h.....
[AbstractPlus](#) | Full Text: [PDF\(264 KB\)](#) IEEE JNL
- ☐ 30. **Dependence of perpendicular coercivity on residual stress of Ba ferrite/ZnO bilayered films deposited substrate**

Noma, K.; Matsushita, N.; Nakagawa, S.; Naoe, M.;
 Magnetism, IEEE Transactions on
 Volume 32, Issue 5, Sept. 1996 Page(s):3822 - 3824

Summary: Ba ferrite films composed of perfectly c-axis oriented crystallites, perpendicular to film plane, were quartz sheets with ZnO underlayer at substrate temperature of 150°C. It was found that the creation of micro

[AbstractPlus](#) | Full Text: [PDF\(348 KB\)](#) IEEE JNL

- ☐ 31. Effect of perpendicular layer thickness on read/write characteristics of perpendicular/longitudinal con ring-type head

Kurokawa, Y.; Nagasaki, A.; Homma, T.; Osaka, T.;
 Magnetism, IEEE Transactions on
 Volume 32, Issue 5, Sept. 1996 Page(s):3810 - 3812

Summary: The effects of perpendicular layer thickness on remanent magnetization states and recording char perpendicular-longitudinal composite media were investigated. The contribution of perpendicular magnetic re a change.....

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- ☐ 32. Perpendicular anisotropy in Co-Eu-EuS and Co-Eu-Tb-EuS exchange coupled sputtered films

Lien-Chang Wang; Gambino, R.J.;
 Magnetism, IEEE Transactions on
 Volume 32, Issue 5, Sept. 1996 Page(s):4076 - 4077

Summary: In an effort to achieve a high data storage density media, Co-Eu-EuS and Co-Eu-Tb-EuS thin film RF sputtering. These samples show strong perpendicular anisotropy and high coercivity fields which are requ storage de.....

[AbstractPlus](#) | Full Text: [PDF\(188 KB\)](#) IEEE JNL

- ☒ 33. Extremely high linear density recording by perpendicular magnetization

Honda, N.; Ouchi, K.; Iwasaki, S.;
 Magnetism, IEEE Transactions on
 Volume 32, Issue 5, Sept. 1996 Page(s):3804 - 3806

Summary: High output and high linear density recording of 300 kFRPI was obtained utilizing composite perp on Co-Cr system alloy. It was found that the medium thickness exhibited a significant effect on the output. Hig lower

[AbstractPlus](#) | Full Text: [PDF\(392 KB\)](#) IEEE JNL

- ☐ 34. High-coercivity CoPt alloy films grown by sputtering

Hu, J.-P.; Lin, P.;
 Magnetism, IEEE Transactions on
 Volume 32, Issue 5, Sept. 1996 Page(s):4096 - 4098

Summary: Co_xPt_{1-x} alloy films (x=0.2~0.4) were prepared by rf sputtering at substrate temperatures 150~300 underlayer and post annealing. The magnetic properties of the films showed strong dependence on the comp

[AbstractPlus](#) | Full Text: [PDF\(184 KB\)](#) IEEE JNL

- ☐ 35. Read/write characteristics of Co-Zn ferrite rigid disks in contact mode recording

Matsushita, N.; Morisako, A.; Nakagawa, S.; Naoe, M.;
 Magnetism, IEEE Transactions on
 Volume 32, Issue 5, Sept. 1996 Page(s):3578 - 3580

Summary: Co-Zn ferrite films were deposited at substrate temperature T_s from 90 to 500°C by using facing ti Specimen films deposited at T_s of 200°C and below were composed of crystallites with excellent (111) ori.....

[AbstractPlus](#) | Full Text: [PDF\(296 KB\)](#) IEEE JNL

- ☐ 36. Gbit/in² perpendicular recording using double layer medium and MIG head

Iwasaki, S.; Ouchi, K.; Honda, N.;
 Magnetism, IEEE Transactions on
 Volume 32, Issue 5, Sept. 1996 Page(s):3795 - 3800

Summary: Perpendicular recording has been studied using ring heads for read and write. It was confirmed th density of 1 Gbit/in² could be achieved by using a MIG type ring head for recording and a narrow gap ring he

[AbstractPlus](#) | Full Text: [PDF\(692 KB\)](#) IEEE JNL

- ☐ 37. **Perpendicular Co-Cr magnetic recording media prepared by sputtering using ECR microwave plasma**
Yamamoto, S.; Sato, K.; Kurisu, H.; Matsuura, M.; Hirono, S.; Maeda, Y.;
Magnetics, IEEE Transactions on
Volume 32, Issue 5, Sept. 1996 Page(s):3825 - 3827
Summary: Perpendicular Co-Cr media were deposited on polyimide substrates by sputtering using an electric resonance microwave plasma in an Ar sputtering gas pressure ranging from 3×10^{-2} to 8×10^{-2} Pa at a target to
[AbstractPlus](#) | Full Text: [PDF\(284 KB\)](#) IEEE JNL
- ☐ 38. **Challenges in the practical implementation of perpendicular magnetic recording**
Cain, W.; Payne, A.; Baldwinson, M.; Hempstead, R.;
Magnetics, IEEE Transactions on
Volume 32, Issue 1, Jan. 1996 Page(s):97 - 102
Summary: The storing of recorded bits in a perpendicular orientation holds great promise for high linear density. However, the most common embodiment of perpendicular recording (the probe head/double layer media) has issue.....
[AbstractPlus](#) | Full Text: [PDF\(640 KB\)](#) IEEE JNL
- ☐ 39. **Magneto-optical properties of Sr-ferrite films produced by pulsed laser ablation**
Papakonstantinou, P.; Atkinson, R.; O'Neill, M.; Salter, I.W.; Gerber, R.;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):3283 - 3285
Summary: The effect of substrate temperature and oxygen pressure on the microstructure and magneto-optical properties of Sr-ferrite films grown on (001) single crystal sapphire substrates by pulsed laser deposition has been investigated.....
[AbstractPlus](#) | Full Text: [PDF\(408 KB\)](#) IEEE JNL
- ☐ 40. **Annealing effects of Co/Ni multilayers**
Zhang, Y.B.; Woollam, J.A.;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):3262 - 3264
Summary: Several series of sputtered Co(0.2 nm)/Ni(0.8 nm) multilayered films have been annealed up to 400°C. Annealed samples maintain a perpendicular easy direction and have large magnetic coercivity values. For on the
[AbstractPlus](#) | Full Text: [PDF\(248 KB\)](#) IEEE JNL
- ☐ 41. **Thermomagnetically written domains in compositionally modulated DyFeCo thin films**
Carey, R.; Newman, D.M.; Snelling, J.P.; Thomas, B.W.J.;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):3259 - 3261
Summary: Magnetic properties of critical importance to the thermo-magnetic recording process are shown to be dependent. The use of structure as an additional tool in the control of these properties is illustrated by experiments.....
[AbstractPlus](#) | Full Text: [PDF\(372 KB\)](#) IEEE JNL
- ☒ 42. **The effect of Pd layer thickness on the magnetic and magneto-optical properties of Pd/(Pt/Co/Pt) mod**
Ying Xiao; Jun-Hao Xu; Wittborn, J.; Makino, Y.; Rao, K.V.; Zuo-Yi Lee;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):3343 - 3345
Summary: A series of Pd- t_{Pd} /(Pt-2 Å/Co-3 Å/Pt-2 Å) modulated multilayer films with Pd layer thickness t_{Pd} ranging from 0 to 10 Å have been deposited on oxidized Si substrates. SQUID magnetic and Kerr hysteresis measurements.....
[AbstractPlus](#) | Full Text: [PDF\(376 KB\)](#) IEEE JNL
- ☒ 43. **Kerr rotations and anisotropy in (Pt/Co/Pt)/X multilayers**
Bertero, G.A.; Sinclair, R.;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):3337 - 3342
Summary: The link between interface sharpness and perpendicular magnetic anisotropy (K_u) in Pt/Co multilayers is exploited to yield enhanced magnetic anisotropy in related multilayer structures. These new multilayers consist of.....
[AbstractPlus](#) | Full Text: [PDF\(728 KB\)](#) IEEE JNL

- ☐ 44. **Magnetic and magneto-optical properties of $\text{Mn}_x\text{CuBi}(x=0.75-3.5)$ films**
 Jian Chen; Wierman, K.; Kirby, R.D.; Sellmyer, D.J.;
 Magnetics, IEEE Transactions on
 Volume 31, Issue 6, Nov. 1995 Page(s):3334 - 3336
 Summary: Magnetic and magneto-optical properties of $\text{Mn}_x\text{CuBi}(x=0.75-3.5)$ thin films are presented. With increasing concentration x , the perpendicular anisotropy constant (K_u), the remanence squareness ($S=M_r/M_s$) and.....
[AbstractPlus](#) | Full Text: [PDF\(228 KB\)](#) IEEE JNL
- ☐ 45. **Control of orientation and crystallite size of barium ferrite thin films in sputter deposition**
 Hoshi, Y.; Kubota, Y.; Naoe, M.;
 Magnetics, IEEE Transactions on
 Volume 31, Issue 6, Nov. 1995 Page(s):2782 - 2784
 Summary: Hexagonal barium ferrite thin films were deposited in a facing target sputtering system. Films with c -axis orientation were obtained by depositing the films on a thermally oxidized silicon wafer and on a c -axis oriented substrate.....
[AbstractPlus](#) | Full Text: [PDF\(408 KB\)](#) IEEE JNL
- ☐ 46. **High coercivity in Co-Cr films induced by nitrogen gas addition during room temperature sputter-deposition**
 Hoad, N.; Chiba, T.; Ouchi, K.; Iwasaki, S.;
 Magnetics, IEEE Transactions on
 Volume 31, Issue 6, Nov. 1995 Page(s):2758 - 2760
 Summary: Nitrogen gas addition was investigated for deposition of Co-Cr films at room temperature. It was found that nitrogen addition has a remarkable effect on increasing perpendicular coercivity $H_{c\perp}$ for films deposited at high Ar pressure.....
[AbstractPlus](#) | Full Text: [PDF\(456 KB\)](#) IEEE JNL
- ☐ 47. **Magnetic and read/write performance of CoCrTaPt perpendicular media**
 Nagaoka, T.; Baldwin, C.; Payne, A.P.;
 Magnetics, IEEE Transactions on
 Volume 31, Issue 6, Nov. 1995 Page(s):2755 - 2757
 Summary: Third element additions have been effectively employed in CoCrX alloys for longitudinal recording to improve magnetic performance. In this work, we report on similar modifications to Perpendicular (\perp) magnetic recording.....
[AbstractPlus](#) | Full Text: [PDF\(268 KB\)](#) IEEE JNL
- ☐ 48. **Modeling of various magnetoresistive head designs for contact recording**
 Cain, W.C.;
 Magnetics, IEEE Transactions on
 Volume 31, Issue 6, Nov. 1995 Page(s):2645 - 2647
 Summary: As areal density increases demand magnetoresistive (MR) sensors and contact limited spacing, a new head design will be needed for system robustness. In this study, two dimensional reciprocity modeling is used to evaluate the performance of.....
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- ☐ 49. **An analysis on multi-track submicron-width recording in perpendicular magnetic recording**
 Shimizu, Y.; Tagawa, I.; Muraoka, H.; Nakamura, Y.;
 Magnetics, IEEE Transactions on
 Volume 31, Issue 6, Nov. 1995 Page(s):3096 - 3098
 Summary: A three-dimensional simulation program for analysis on high areal density magnetic recording is developed. The magneto-static interaction between a head and a medium is taken into account with a reasonable medium model.....
[AbstractPlus](#) | Full Text: [PDF\(416 KB\)](#) IEEE JNL
- ☐ 50. **Tribological properties of barium ferrite films**
 Scherge, M.; Sui, X.; Ma, X.; Bauer, C.L.; Jhon, M.S.; Kryder, M.H.;
 Magnetics, IEEE Transactions on
 Volume 31, Issue 6, Nov. 1995 Page(s):2928 - 2930
 Summary: Acoustic emission and friction coefficients have been measured during start-stop and continuous recording on doped barium ferrite films, without lubrication, and compared with concomitant surface topography and magnetic properties.....

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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

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- ☐ 51. Domain walls interactions with attractive and repulsive defects in the garnet films
Karpasyuk, V.K.; Bulatov, M.F.;
Magnetics, IEEE Transactions on
Volume 30, Issue 6, Nov 1994 Page(s):4344 - 4346
Summary: This paper describes methods permitting the determination of the magnetic dipole moments of vol thin films with a perpendicular anisotropy. The methods are based on the study of solitary defect interactions: a
[AbstractPlus](#) | Full Text: [PDF\(208 KB\)](#) IEEE JNL
- ☐ 52. Anisotropy and magneto-optical properties of sputtered Co/Ni multilayer thin films
Zhang, Y.B.; Woollam, J.A.; Shan, Z.S.; Shen, J.X.; Selmyer, D.J.;
Magnetics, IEEE Transactions on
Volume 30, Issue 6, Nov 1994 Page(s):4440 - 4442
Summary: Several series of sputtered Co/Ni multilayer thin films have been investigated. The volume and int the magnetic anisotropy were determined from magnetization measurements, and the interface anisotropy, K
[AbstractPlus](#) | Full Text: [PDF\(232 KB\)](#) IEEE JNL
- ☐ 53. A perpendicular contact recording head with high moment laminated FeAlN/NiFe pole tips
Wang, S.; Louis, E.; Wolfson, J.; Anderson, R.; Kryder, M.H.;
Magnetics, IEEE Transactions on
Volume 30, Issue 6, Nov 1994 Page(s):3897 - 3899
Summary: Perpendicular recording probe heads using high moment FeAlN/NiFe laminated magnetic materials fabricated and tested. FeAlN/NiFe films with a saturation magnetization of 18 kG, a coercivity of 1.0 Oe, and i Oe, wer.....
[AbstractPlus](#) | Full Text: [PDF\(284 KB\)](#) IEEE JNL
- ☐ 54. Oxygen effect on the microstructure and magnetic properties of binary CoPt thin films for perpendicular recording
Hikosaka, T.; Komai, T.; Tanaka, Y.;
Magnetics, IEEE Transactions on
Volume 30, Issue 6, Nov 1994 Page(s):4026 - 4028
Summary: This paper presents the effect of oxygen on the microstructure of Co-18 at.% Pt perpendicular me to the CoPt films during high Ar pressure (4 Pa) sputtering successfully increased the perpendicular coercivity.....
[AbstractPlus](#) | Full Text: [PDF\(348 KB\)](#) IEEE JNL
- ☐ 55. High coercivity in Co-Cr films for perpendicular recording prepared by low temperature sputter-deposition
Honda, N.; Ariake, J.; Ouchi, K.; Iwasaki, S.;
Magnetics, IEEE Transactions on

Volume 30, Issue 6, Nov 1994 Page(s):4023 - 4025

Summary: H_c over 1000 Oe has been achieved for Co-Cr films deposited at room temperature and at an ex pressure onto a Ti underlayer. Conditions for further high H_c were studied. After optimization of the Ti und....

[AbstractPlus](#) | Full Text: [PDF\(288 KB\)](#) IEEE JNL

- ☐ 56. Soft magnetic and crystallographic properties of $Ni_{81}Fe_{19}/Co_{67}Cr_{33}$ multilayers as backlayers in perp media
Nakagawa, S.; Ichihara, T.; Naoe, M.;
Magnetics, IEEE Transactions on
Volume 30, Issue 6, Nov 1994 Page(s):4020 - 4022
Summary: Multilayers composed of $Ni_{81}Fe_{19}$ and paramagnetic $Co_{67}Cr_{33}$ interlayers were prepared by facin backlayers for perpendicular magnetic recording media. This multilayered film must satisf.....
[AbstractPlus](#) | Full Text: [PDF\(244 KB\)](#) IEEE JNL

- ☐ 57. Pd/Co multilayers for perpendicular magnetic recording
Lairson, B.M.; Perez, J.; Baldwin, C.;
Magnetics, IEEE Transactions on
Volume 30, Issue 6, Nov 1994 Page(s):4014 - 4016
Summary: We have demonstrated that Pd/Co metal multilayers have superior perpendicular magnetic recort compared with conventional CoCr perpendicular alloy media. Using a perpendicular contact probe transducer exhibit more t.....
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- ☐ 58. Microstructure and magnetic properties of anisotropic NdFeB powders from hot rolled ingots by HD p
Hinz, D.; Handstein, A.; Harris, I.R.;
Magnetics, IEEE Transactions on
Volume 30, Issue 2, Mar 1994 Page(s):601 - 603
Summary: Hot rolling of cast $Nd_{18.5}Fe_{77.5}B_8$ ingots wrapped in iron was used to produce anisotropic magnet for anisotropic powder. After application of the HD process the NdFeB powder could be easily remov.....
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- ☐ 59. Chip organization of Bloch line memory with thermomagnetically written domain patterns
Asada, H.; Matsuyama, K.; Gamachi, M.; Miyoshi, H.; Taniguchi, K.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):2572 - 2574
Summary: A stripe domain stabilization method for Bloch line memory is proposed to simplify the stripe initia facilitate the chip fabrication process. In this method, stripe domains are stabilized by stray magnetic fields frc
[AbstractPlus](#) | Full Text: [PDF\(296 KB\)](#) IEEE JNL

- ☐ 60. A numerical Investigation of domain wall overshoot in thin films with perpendicular anisotropy
Patterson, G.N.; Humphrey, F.B.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):2581 - 2583
Summary: The dynamic structure of a magnetic domain wall in a stripe compression experiment is investigat investigation of the Landau-Lifshitz-Gilbert equation. Domain walls of the type found in thin films with a large t perpe.....
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- ☐ 61. Domain analysis in epitaxial iron-aluminum and iron-gold sandwiches with oscillatory exchange
McCord, J.; Hubert, A.; Schafer, R.; Fuss, A.; Grunberg, P.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):2735 - 2737
Summary: Epitaxially grown iron-iron sandwiches with wedge-shaped gold and aluminum interlayers are invi microscopy. While in the Fe-Au-Fe sample an oscillatory exchange (which appears, however, of a rather wea interacti.....
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- ☐ 62. Magnetic anisotropy in arc-cast Nd-Fe-B-Zr alloys
Fujita, A.; Harris, I.R.;

Magnetics, IEEE Transactions on

Volume 29, Issue 6, Nov 1993 Page(s):2803 - 2805

Summary: Magnetically anisotropic ingots with composition of $(\text{Nd}_{2.2}\text{Fe}_{14}\text{B})_{100-x}\text{Zr}_x$ are prepared using an :
The direction perpendicular to the cooling surface is found to be magnetically hard comp.....

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- ☐ 63. Structural and magnetic characteristics of $\text{BaFe}_{12}\text{O}_{19}/\text{ZnO}$ multilayers by arc discharge evaporation
Naoe, M.; Nakagawa, S.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):3096 - 3098
Summary: The vacuum-arc evaporation method is applied to prepare $\text{BaFe}_{12}\text{O}_{19}/\text{ZnO}$ multilayers with sharp
The film consists of 25 bilayers composed of 120 Å $\text{BaFe}_{12}\text{O}_{19}$ and 12 Å ZnO layers.....
[AbstractPlus](#) | Full Text: [PDF\(212 KB\)](#) IEEE JNL
- ☐ 64. As-melt-spun anisotropy of Nd-Fe-B-M flakes (M=Cr or Mo/W/Mn/Co/Ni)
Chin, T.-S.; Huang, S.-H.; Yau, J.-M.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):2791 - 2793
Summary: As-melt-spun anisotropy of Nd-Fe-B-M (M is 0.5 to 3 at.% Cr or Mo/W/Mn/Co/Ni) flakes is studied
addition of Mo or Mn, Co results in much higher remanence and maximum energy product measured normal
than th.....
[AbstractPlus](#) | Full Text: [PDF\(272 KB\)](#) IEEE JNL
- ☐ 65. An analysis of a shielded magnetic pole for perpendicular recording
Wilton, D.T.; Mapps, D.J.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):4182 - 4193
Summary: The new solution of an idealized mathematical model of the field due to a symmetrically shielded
for perpendicular recording is presented. Accurate Fourier coefficients and corresponding magnetic fields are
repre.....
[AbstractPlus](#) | Full Text: [PDF\(692 KB\)](#) IEEE JNL
- ☐ 66. Preparation and magnetic properties of strontium ferrite thin films
Ramamurthy Acharya, B.; Venkatramani, N.; Prasad, S.; Shringi, S.N.; Krishnan, R.; Tessier, M.; Dumond, Y.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):3370 - 3372
Summary: Strontium ferrite films were deposited by RF sputtering of a commercial strontium ferrite target on
substrates maintained at temperatures up to 900°C. Films deposited at $T < 800^\circ\text{C}$ were amorphous, but films c
[AbstractPlus](#) | Full Text: [PDF\(188 KB\)](#) IEEE JNL
- ☐ 67. Microstructural origin of the perpendicular anisotropy in M-type barium hexaferrite thin films deposited by sputtering
Sui, X.; Kryder, M.H.; Wong, B.Y.; Laughlin, D.E.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):3751 - 3753
Summary: Barium hexaferrite thin films deposited by RF magnetron sputtering have exhibited saturation mag
of bulk single crystals, whereas the perpendicular uniaxial anisotropy is only 60% of that of the bulk. X-ray dif
[AbstractPlus](#) | Full Text: [PDF\(316 KB\)](#) IEEE JNL
- ☐ 68. The influence of demagnetization on the magnetic after-effect of Co-Cr micro structures
te Lintelo, H.; Streekstra, W.; Lodder, C.; Popma, T.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):3748 - 3750
Summary: The influence of the demagnetization field on the magnetic after-effect of Co-Cr media is discusse
field of as-sputtered Co-Cr was changed into block-shaped micro structures by lithographic processes. This p
the

69. Narrow track recording in perpendicular thin film media

- ☐ Zhu, J.-G.; Ye, X.-G.;
 Magnetism, IEEE Transactions on
 Volume 29, Issue 6, Nov 1993 Page(s):3736 - 3738
 Summary: Narrow track recording in a double-layer perpendicular film medium is studied via micromagnetic head field with a track width $W=1.5\text{ }\mu\text{m}$ is used for recording simulations. Recordings of multiple consecutive
 AbstractPlus | Full Text: PDF(344 KB) IEEE JNL
- ☐ 70. Magnetic properties and structures of CoCrTa films for wide range of Cr variation
 Hwang, C.H.; Park, Y.S.; Jang, P.W.; Lee, T.D.;
 Magnetism, IEEE Transactions on
 Volume 29, Issue 6, Nov 1993 Page(s):3733 - 3735
 Summary: The authors studied the effects of Ta addition on magnetic properties of CoCrTa films for a wider and tried to elucidate how Ta addition increases the coercivity. Ta addition is effective in increasing perpendicular
 AbstractPlus | Full Text: PDF(240 KB) IEEE JNL
- ☐ 71. Magnetic and magneto-optical properties of $\text{Fe}_x\text{Co}_{1-x}/\text{Pd}$ multilayer thin films
 Shin, S.-C.;
 Magnetism, IEEE Transactions on
 Volume 28, Issue 5, Sep 1992 Page(s):2766 - 2768
 Summary: The author reports the dependence of the magnetization, anisotropy constant, and Kerr rotation on in $\text{Fe}_x\text{Co}_{1-x}/\text{Pd}$ multilayer thin films, where the Fe concentration x varies between 0 and 100% with m_{Fe}
 AbstractPlus | Full Text: PDF(240 KB) IEEE JNL
- ☒ 72. Perpendicular magnetic anisotropy and coercivity of Co/Ni multilayers
 den Broeder, F.J.A.; Janssen, E.; Hoving, W.; Zeper, W.B.;
 Magnetism, IEEE Transactions on
 Volume 28, Issue 5, Sep 1992 Page(s):2760 - 2765
 Summary: The anisotropy of vapor-deposited Co/Ni multilayers has been studied as a function of Co and Ni. Following a recent theoretical prediction, a strong perpendicular anisotropy was found for a [111] Co_4/Ni_2 multilayer.
 AbstractPlus | Full Text: PDF(468 KB) IEEE JNL
- ☐ 73. Coercivity mechanism and microstructure of (Co/Pt) multilayers
 Suzuki, T.; Notarys, H.; Dobbertin, D.C.; Lin, C.-J.; Weller, D.; Miller, D.C.; Gorman, G.;
 Magnetism, IEEE Transactions on
 Volume 28, Issue 5, Sep 1992 Page(s):2754 - 2759
 Summary: The coercivity mechanism of (Co/Pt) multilayers with high H_c and high squareness fabricated by sputtering due to the wall pinning rather than the nucleation process. In order to estimate the size of a wall-pinning site, the coercivity was investigated.
 AbstractPlus | Full Text: PDF(624 KB) IEEE JNL
- ☐ 74. Magnetic properties of multilayered GdDyFeCo thin films
 Torazawa, K.; Tanase, K.; Sumi, S.; Uchiyama, Y.;
 Magnetism, IEEE Transactions on
 Volume 28, Issue 5, Sep 1992 Page(s):2521 - 2523
 Summary: The variation in the magnetic properties of compositionally modulated GdDyFeCo films prepared by magnetron sputtering as a function of the compositional period was investigated. The compositional period was varied by the substrate....
 AbstractPlus | Full Text: PDF(224 KB) IEEE JNL
- ☐ 75. Magnetic properties of a novel iron carbide film, Fe_7C_3 , formed in a glow discharge
 Pringle, O.A.; Long, G.J.; Li, J.L.; James, W.J.; Grandjean, F.; Hadjipanayis, G.C.;
 Magnetism, IEEE Transactions on
 Volume 28, Issue 5, Sep 1992 Page(s):2862 - 2864
 Summary: Fe_7C_3 thin films have been deposited on glass substrates in a radio-frequency glow discharge. At temperatures of about 570 K, these films are crystalline, and exhibit columnar film growth perpendicular to the substrate.
 AbstractPlus | Full Text: PDF(248 KB) IEEE JNL




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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

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- ☐ 76. Micromagnetic study of magnetization process in bicrystal thin film
Ye, X.-G.; Zhu, J.-G.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):3087 - 3089
Summary: A computer simulation study of the magnetization process in bicrystal thin films is presented. Nea obtained in these films with field applied along the diagonal directions between the two crystalline easy axes,
[AbstractPlus](#) | Full Text: [PDF\(596 KB\)](#) IEEE JNL
- ☐ 77. Perpendicular magnetic anisotropy in FeCo/Pt multilayer films
Iwata, S.; Parkin, S.S.P.; Suzuki, T.; Weller, D.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):3231 - 3233
Summary: A systematic study of the magnetic and magneto-optical properties of FeCo/Pt multilayer films has FeCo/Pt multilayer exhibits a large intrinsic perpendicular anisotropy which has nearly the same value as that fi....
[AbstractPlus](#) | Full Text: [PDF\(192 KB\)](#) IEEE JNL
- ☐ 78. Spin reorientation in $Tm_{2.14}Bi_{0.80}Pb_{0.06}Fe_{3.1}Ga_{1.9}O_{12}$ thin films
Bornfreund, R.E.; Khan, D.C.; Wigen, P.E.; Pardavi-Horvath, M.; Ings, J.; Belt, R.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2991 - 2993
Summary: A single-crystal garnet thin film has been found to undergo a continuous reorientation of its easy c magnetization from in-plane to perpendicular to the plane over a temperature range of 100 K to 125 K. The te determined....
[AbstractPlus](#) | Full Text: [PDF\(228 KB\)](#) IEEE JNL
- ☐ 79. Large Kerr rotation angle and magnetic characteristics of Co-Cr/Al multilayers prepared by plasma-fri
Hirata, T.; Naoe, M.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2964 - 2966
Summary: Multilayers of 50 ~ 1500 Å Co-Cr/7 Å Al for perpendicular magnetic (PM) and magneto-optical (MC) were prepared by the facing targets sputtering (FTS) method. It has been confirmed that the FTS apparatus c
[AbstractPlus](#) | Full Text: [PDF\(216 KB\)](#) IEEE JNL
- ☐ 80. Simple model of the high frequency permeability of narrow thin-film structures with eddy currents, w
Webb, B.C.; Re, M.E.; Jahnes, C.V.; Russak, M.A.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2955 - 2957

Summary: The authors report the derivation and experimental verification of a simple model of the high-frequency narrow soft-magnetic thin-film structures which includes eddy currents and magnetization rotation, wall motion. Da.....

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- ☐ 81. **Magnetization of Sm-Fe-N thin films with in-plane anisotropy**
Wang, D.; Hadjipanayis, G.C.; Sellmyer, D.J.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2590 - 2592
Summary: Sm-Fe-N films have been made by DC magnetron sputtering and heating in-situ in a nitrogen atm observed that the anisotropy changes from perpendicular to in-plane by nitrogenation. The Curie temperature Aspects of structu.....
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☐ 82. **Orientation and angular dependence of magnetic properties for Ba-ferrite tapes**
Suzuki, T.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2388 - 2390
Summary: It is shown that Ba-ferrite tapes have a different angle dependence for H_c and squareness ratio th tapes. Large perpendicular-to-longitudinal ratios for H_c and squareness, and small $swit$
[AbstractPlus](#) | Full Text: [PDF\(324 KB\)](#) IEEE JNL

☐ 83. **Interaction effects in film media with varying out-of-plane orientation**
Alex, M.; Yogi, T.; Sanders, I.L.; O'Grady, K.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):3264 - 3266
Summary: Interactions and switching characteristics of thin-film recording media with varying degrees of out-have been measured and correlated to media noise. Unlike conventional magnetic measurements that can be med.....
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☐ 84. **Thickness dependent coercivity in sputtered Co/Pt multilayers**
Weller, D.; Notarys, H.; Suzuki, T.; Gorman, G.; Logan, T.; McFadyen, I.; Chien, C.J.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2500 - 2502
Summary: Sputtered Co/Pt multilayers grown on etched SiN_x buffers exhibit large perpendicular magnetic ar striking thickness dependence of the perpendicular coercivity. $H_C \perp$ of a series of N_x
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☐ 85. **In-plane magnetic anisotropies in polycrystalline Ni films induced by Xe bombardment during growth**
Farle, M.; Saffari, H.; Lewis, W.A.; Kay, E.; Hagstrom, S.B.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2940 - 2942
Summary: 250 to 1500 Å thin Ni films were ion beam sputtered onto a fused quartz substrate with simultaneous Xe ions of 100 eV. Hysteresis loops were recorded ex situ by the longitudinal magneto-optic Kerr effect. A magnetic uniaxial.....
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☐ 86. **Effect of substrate temperature on magnetic and microstructural properties of sputtered Co-Cr films with magnetic anisotropy**
Uchiyama, Y.; Sato, H.; Kitamoto, Y.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2010 - 2017
Summary: Co-22 at.%Cr films with perpendicular magnetic anisotropy have been sputter-deposited onto glass at various substrate temperatures from room temperature to 230°C. A systematic X-ray analysis has shown that the temperatures.....
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☐ 87. **Domain wall dynamics in TbFeCo thin films**

- ☐ Gadetsky, S.N.; Stupnov, A.V.; Zumkin, M.V.; Nikolaev, E.N.;
 Magnetism, IEEE Transactions on
 Volume 28, Issue 5, Sep 1992 Page(s):2928 - 2930
 Summary: The pulse magnetization method was used to study DW (domain wall) dynamics in $Tb_x(Fe_{85}Co_{15})$ with Tb content of 18-28 at.%. The films have perpendicular magnetic anisotropy. The charact.....
[AbstractPlus](#) | Full Text: [PDF\(256 KB\)](#) IEEE JNL
- ☐ 88. Domains and domain nucleation in magnetron-sputtered CoCr thin films
 Demczyk, B.G.;
 Magnetism, IEEE Transactions on
 Volume 28, Issue 2, Mar 1992 Page(s):998 - 1002
 Summary: The magnetic domain configurations in magnetron-sputtered CoCr thin films have been examined by transmission electron microscopy. The thinnest (10 nm) films display in-plane 180° domain walls, while thicker out-of-pl.....
[AbstractPlus](#) | Full Text: [PDF\(1176 KB\)](#) IEEE JNL
- ☐ 89. Magnetometry and recording on very high coercivity cobalt alloy disk media
 Coughlin, T.; Viswanathan, N.; Spiliotis, D.;
 Magnetism, IEEE Transactions on
 Volume 27, Issue 6, Nov 1991 Page(s):5034 - 5036
 Summary: The hysteretic and remanent properties, the in-plane and out-of-plane anisotropy, and the high-density characteristics of very high coercivity (1450 Oe nominal) state-of-the-art commercial 95-mm thin-film disks from sources we.....
[AbstractPlus](#) | Full Text: [PDF\(212 KB\)](#) IEEE JNL
- ☐ 90. High areal bit density perpendicular magnetic recording on hard disk
 Yamamoto, S.; Muraoka, H.; Nakamura, Y.;
 Magnetism, IEEE Transactions on
 Volume 27, Issue 6, Nov 1991 Page(s):5292 - 5294
 Summary: The feasibility of high-areal-density perpendicular magnetic recording was investigated in a hard contact-type single-pole head and a Co-Cr/Ni-Fe medium. The overall spacing loss in recording and reproduction found t.....
[AbstractPlus](#) | Full Text: [PDF\(316 KB\)](#) IEEE JNL
- ☐ 91. Small magnetic patterns written with a scanning tunneling microscope
 Watanuki, O.; Sonobe, Y.; Tsuji, S.; Sai, F.;
 Magnetism, IEEE Transactions on
 Volume 27, Issue 6, Nov 1991 Page(s):5289 - 5291
 Summary: The authors present a technique for writing submicron magnetic bit patterns on double-layered media by using a scanning tunneling microscope (STM) with an amorphous magnetic tip and observing them by microsc.....
[AbstractPlus](#) | Full Text: [PDF\(220 KB\)](#) IEEE JNL
- ☐ 92. Relationships between high density recording performance and particle coercivity distribution
 Tagawa, I.; Nakamura, Y.;
 Magnetism, IEEE Transactions on
 Volume 27, Issue 6, Nov 1991 Page(s):4975 - 4977
 Summary: Most magnetic recording media are composed of magnetic crystalline particles having inherent coercivity from crystalline and shape anisotropies. The relationship between the statistical distribution of the particle coercivity
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- ☐ 93. Contact perpendicular recording on rigid media
 Hamilton, H.; Anderson, R.; Goodson, K.;
 Magnetism, IEEE Transactions on
 Volume 27, Issue 6, Nov 1991 Page(s):4921 - 4926
 Summary: The authors describe integrated head/flexure structures which have an effective mass of about 30% indication of head crash, and hold the potential for very low wear of both head and media, when operating in contact.....
[AbstractPlus](#) | Full Text: [PDF\(604 KB\)](#) IEEE JNL

- ☐ 94. Microstructural study of electroless-plated ternary alloy films for perpendicular magnetic recording
 Homma, T.; Inoue, K.; Asai, H.; Ohnishi, K.; Osaka, T.;
 Magnetics, IEEE Transactions on
 Volume 27, Issue 6, Nov 1991 Page(s):4909 - 4911
 Summary: The microstructure of electroless CoNiP films with various H_c values for use as perpendicular media was investigated. It was observed that the H_c values of the films varied

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 - ☐ 95. Perpendicular magnetic recording process of electroless-plated CoNiReP/NiFeP double-layered media heads
 Osaka, T.; Homma, T.; Noda, K.; Watanabe, T.; Goto, F.;
 Magnetics, IEEE Transactions on
 Volume 27, Issue 6, Nov 1991 Page(s):4963 - 4965
 Summary: Electroless-plated CoNiReP/NiFeP double-layered (DL) media with various underlayer coercivity: examined to study perpendicular recording performance using ring-type heads. For the case of a DL medium

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 - ☐ 96. Recording characteristics for highly oriented Ba-ferrite flexible disks
 Yamamori, K.; Tanaka, T.; Jitoshio, T.;
 Magnetics, IEEE Transactions on
 Volume 27, Issue 6, Nov 1991 Page(s):4960 - 4962
 Summary: The effects of perpendicular orientation and coercivity on short wavelength recording characteristics of flexible disks (FDs) were investigated. The experimental results indicate that the short wavelength output is related to.....

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 - ☐ 97. New concepts for perpendicular magnetic recording hard disk system
 Nakamura, Y.; Muraoka, H.;
 Magnetics, IEEE Transactions on
 Volume 27, Issue 6, Nov 1991 Page(s):4555 - 4560
 Summary: Novel concepts for perpendicular magnetic recording are proposed. Recording mechanism analysis, interface, and a narrow track single-pole head are described. A finite-element method simulation, with accurate estimates of.....

[AbstractPlus](#) | Full Text: [PDF](#)(492 KB) IEEE JNL
 - ☐ 98. Recording characteristics of electroless-plated perpendicular recording flexible disks with a perpendicular head
 Matsubara, H.; Mizutani, H.; Mitamura, S.; Osaka, T.;
 Magnetics, IEEE Transactions on
 Volume 26, Issue 3, May 1990 Page(s):1210 - 1212
 Summary: Perpendicular magnetic recording using a main-pole-driven perpendicular head was tested using flexible disks. Soft magnetic NiFeP films, also produced by electroless plating, were used as an underlayer of recording

[AbstractPlus](#) | Full Text: [PDF](#)(204 KB) IEEE JNL
 - ☐ 99. Recording characteristics of perpendicular magnetic hard disk measured by nonflying single-pole head
 Nakamura, Y.; Ouchi, K.; Yamamoto, S.; Watanabe, T.;
 Magnetics, IEEE Transactions on
 Volume 26, Issue 5, Sep 1990 Page(s):2436 - 2438
 Summary: A contact recording experiment using perpendicular magnetic hard disks was conducted with a nonflying type magnetic head to investigate the practical feasibility of extremely high-density magnetic recording. A single-pole head produces an.....

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 - ☐ 100. Magnetic properties of Fe-Co nitride thin films. II
 Takahashi, S.; Kume, M.; Matsuura, K.;
 Magnetics, IEEE Transactions on
 Volume 26, Issue 5, Sep 1990 Page(s):1632 - 1634
 Summary: For part I see *ibid.*, vol.23, p.3630 (1987). The magnetic properties of Fe-Co nitride thin films prepared by sputtering were investigated. The coercivity of the films varied with the Fe content. The coercivity of the films was found to be related to the grain size of the films. The coercivity of the films was found to be related to the grain size of the films.

assisted vapor deposition) method with normal incidence of metal vapor to the substrate were investigated. It
sui.....

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